

Guidelines for Topten Public Procurers

Household Washing machines

[Steffen Hepp](#), June 2021



Why follow Topten criteria?

- Topten.eu/pro (www.topten.eu/pro) is a European web portal helping buyers, professionals, public procurers and large buyers to find the most energy efficient products available in Europe. The products are selected and updated continuously, according to their high energy and environmental performances, independently from the manufacturers.
- The Topten criteria below can be inserted directly into tendering documents.
- All household washing machines displayed on www.topten.eu meet the criteria contained in these guidelines. Procurers can therefore use the website to check the availability and assortment of products currently on the market, which meet the [Topten selection criteria for Household Washing Machines](#).
- Topten.eu/pro links to national partners Topten Pro websites and was developed under the Topten Act project, supported by the European Union through Horizon 2020 programme.

How much can you save?

The category household washing machines, listed on www.topten.eu, includes front-loading and top loading machines.

Considering the following assumptions, it is possible to achieve the savings indicated in the next table.

- Assumptions {
- Lifetime expectation: 15 years
 - Cycles per year: 220 (single-family house)
 - Electricity cost: 0.20 €/kWh, Water cost: 2,5 €/m³

	Topten model	Inefficient model
Capacity	8 kg	8 kg
Energy class	A	E
Electricity consumption (kW/year)	105	184
Water consumption	9,610 l/year	16,817 l/year
Use cost (electricity + water in 15 years)	676 €	1,183 €
Savings in 15 years	43% energy + 43% water 507 € / unit (energy + water)	

Topten models can consume about 43% less energy and 43% less water compared to inefficient models. This can lead to a saving of approximately 507 € per unit in energy and water over their lifetime.

Procurement criteria

The following criteria can be inserted directly into tendering documents. The Topten selection criteria and the product lists are updated regularly. The newest versions are always available at www.topten.eu/pro.

SUBJECT: HIGHLY ENERGY-EFFICIENT WASHING MACHINES

TECHNICAL SPECIFICATIONS

Energy class according to EU energy label

- Models with capacity up to 8 kg: A to D
- Models with capacity 8 kg and more: A and B

Verification

Bidders must supply the energy label and technical data according to EU Regulations No. 2019/2014 and No. 2019/2023.

Furthermore, the bidder supplies information on the availability of a water protection system (Aqua Stop, waterproof, water control system etc.)

NOTES ON IMPLEMENTATION

Table 1: Overview of energy classes allowed on the European market

	<p>Commission Delegated Regulation n° 2019/2014</p>	
	<p>Energy efficiency class</p>	<p>Energy efficiency index</p>
	<p>A</p>	<p>EEI ≤ 52</p>
	<p>B</p>	<p>52 < EEI ≤ 60</p>
	<p>C</p>	<p>60 < EEI ≤ 69</p>
	<p>D</p>	<p>69 < EEI ≤ 80</p>
	<p>E</p>	<p>80 < EEI ≤ 91</p>
	<p>F</p>	<p>91 < EEI ≤ 102</p>
	<p>G</p>	<p>EEI > 102</p>
	<p>Note: The lower the value, the better the efficiency of the device</p>	

To increase savings and reduce environmental impact, procurers should evaluate life cycle costs when tendering for household washing machines. Thus, it is advisable to include in the tender a costing exercise - even if simple - for the product life cycle costs.

Table 2: Example of a breakdown costs table, to be filled in by bidders

	Information details	Different unit costs in € (excluding tax)	Total cost in € (excluding tax)
Delivery			
Installation			
Use*	Annual energy consumption, in kWh/year, x n° units Annual water consumption, in l/year, x n° units	Electricity cost**: 0,20 €/kWh Water cost**: 2,5 €/m ³	
Maintenance			
Recycling and disposal			

* Example of how use costs can be determined. In the EU regulation the annual energy & water consumption calculation considers 220 washing cycles for a single-family household.

** This figure is just an example. The procurer can use the average electricity price paid during the last 2 or 3 years, and also include subscription fee and taxes.

Advice and support

If you would like further assistance in using the information presented here in your own procurement actions or more information on [Topten Pro](#) contact your national Topten team (find it on [Topten.eu](#)).

The European Commission's [Green Public Procurement](#) website contains valuable legal and practical guidance together with procurement criteria for a range of commonly procured products and services.



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